



united states department of commerce

Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS

Washington, D.C. 20231

APPLICATION NO. **FILING DATE** FIRST NAMED INVENTOR ATTORNEY DOCKET NO. 09/484,051 01/18/00 PARK C SEC.0689 **EXAMINER** QM02/1005 Jones Volentine LLP **ART UNIT** PAPER NUMBER Suite 150 12200 Sunrise Valley Drive Reston VA 20191 3743 DATE MAILED: 10/05/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

	Application No.	Applicant(s)	
Office Action Summary	08/484,051	Park	
omoc Aonon Gummary	Examiner		Group Art Unit
	Attinson		378
The MAILING DATE of this communication appear	ers on the cover sheet l	peneath the co	rrespondence address
Period for Response			
A SHORTENED STATUTORY PERIOD FOR RESPONSE IS SMAILING DATE OF THIS COMMUNICATION.	SET TO EXPIRE 3	MONTI	H(S) FROM THE
 Extensions of time may be available under the provisions of 37 CFR from the mailing date of this communication. If the period for response specified above is less than thirty (30) days If NO period for response is specified above, such period shall, by de Failure to respond within the set or extended period for response will, 	, a response within the statut	ory minimum of the from the mailing	nirty (30) days will be considered timely. date of this communication .
Status /	,		
Responsive to communication(s) filed on 7/3	1/01		
☐ This action is FINAL.			•
☐ Since this application is in condition for allowance except accordance with the practice under Ex parte Quayle, 193			the merits is closed in
Disposition of Claims			
□efaim(s)			pending in the application.
Ufaim(s) /- 23 Of the above claim(s) 2, 4, 9-15 and 18-22			vithdrawn from consideration.
□ Claim(s) 1, 3, 5-8, 16-17 and 2		is/are a	allowed
Schim(s) 13.5-8/6-17and2	. }	io/aro r	niested
□ Claim(s)			•
□ Claim(s)		are sub require	•
Application Papers		•	
☐ See the attached Notice of Draftsperson's Patent Drawin			
☐ The proposed drawing correction, filed on	• •	disapprove	d.
☐ The drawing(s) filed on is/are object	cted to by the Examiner.		
☐ The specification is objected to by the Examiner.			
☐ The oath or declaration is objected to by the Examiner.			
Priority under 35 U.S.C. § 119 (a)-(d)			
 □ Acknowledgment is made of a claim for foreign priority uner like and like and	the priority documents h	ave been	
 □ received in Application No. (Series Code/Serial Numb □ received in this national stage application from the Interest 	·		•
*Certified copies not received:	•		·
Attachment(s)	_		
☐ Information Disclosure Statement(s), PTO-1449, Paper N	lo(s). 6,3+4	nterview Sumn	nary, PTO-413
☑ Notice of References Cited, PTO-892			nal Patent Application, PTO-152
☐ Notice of Draftsperson's Patent Drawing Review, PTO-94		_	
Offic	e Action Summary		

Application/Control Number: 09/484,051 Page 2

Art Unit: 3743

Response to Election

Applicant's election with traverse of species as illustrated in Figure 14 in Paper No. 8 is acknowledged. The traversal is on the ground(s) that Fig.10 is not mutually exclusive of Fig. 12 and Fig. 14 is not mutually exclusive of Fig. 17. This is not found persuasive because the devices in the above figures are different. Since applicant has not argued/stated the species are obvious variants of one another, the species are still considered to be patentably distinct.

The requirement is still deemed proper and is therefore made FINAL.

Claims 2, 4, 9-15 and 18-22 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in Paper No. 8.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 6-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Shinya et al.

Claims 1 and 6-7 are rejected under 35 U.S.C. 102(b) as being anticipated by applicant cited Japanese reference 6-349722.

Claim Rejections - 35 USC § 103

Art Unit: 3743

The following is a quotation of 35 U.S.C. § 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Subject matter developed by another person, which qualifies as prior art only under subsection (f) or (g) of section 102 of this title, shall not preclude patentability under this section where the subject matter and the claimed invention were, at the time the invention was made, owned by the same person or subject to an obligation of assignment to the same person.

Claims 3, 5, 8 and 23 are rejected under 35 U.S.C. § 103 as being unpatentable over Japanese reference ('722) in view of Akachi.

The Japanese reference ('722) discloses all the claimed features with the exception of the heat pipe having capillary channels.

The patent of Akachi discloses that it is known to have a heat pipe comprised of a closed loop capillary channel for the purpose of improved heat transfer performance without increasing thickness; reducing size and weight; reducing contact heat resistance and reducing manufacturing costs. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to employ in the Japanese reference ('722) a heat pipe comprised of a closed loop capillary channel for the purpose of improved heat transfer performance without increasing thickness; reducing size and weight; reducing contact heat resistance and reducing manufacturing costs as disclosed in Akachi.

Art Unit: 3743

Japanese reference ('722) in view of Akachi.

Claims 1, 6-8 and 23 are rejected under 35 U.S.C. § 103 as being unpatentable over Tsutahara et al. in view of Ahern et al.

The patent of Tsutahara et al. discloses all the claimed features with the exception of the uniform heating device being a heat pipe.

The patent of Ahern et al. discloses that it is known to have a heat pipe comprised of a closed loop capillary channel for the purpose of improved heat transfer performance without increasing thickness; reducing size and weight; reducing contact heat resistance and reducing manufacturing costs. It would have been obvious at the time the invention was made to a person having ordinary skill in the art to employ in Tsutahara et al. for the purpose of improved heat transfer performance without increasing thickness; reducing size and weight; reducing contact heat resistance and reducing manufacturing costs as disclosed in Ahern et al.

Claims 3, 5 and 16-17 are rejected under 35 U.S.C. § 103 as being unpatentable over Tsutahara et al. in view of Ahern et al. as applied to claims 1, 6-8 and 23 above, and further in view of Akachi in view of claims 3, 5, 8 and 23 above.

_Conelusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Atkinson whose telephone number is (703) 308-2603.

A.A. PRIMARY EXAMINER

CHRISTOPHER ATKINSON

September 28, 2001